

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1 (currently amended): A projector comprising:

- 5 a housing;
 a light source installed in the housing;
 a color wheel for separating the light from the light source into color light;
 an image modulator for modulating the color light from the color wheel, and
 projecting the color light to form an image on a screen;
10 a scalar connected to the image modulator for controlling the image modulator to
 create a plurality of gray-level images for each of one or more predetermined
 colors; and
 a control circuit for projecting an on screen display (OSD) on a screen, the OSD
 comprising the plurality of gray-level images created by the scalar, and for
15 adjusting a color wheel delay of the projector until the gray-level images
 corresponding to each color display the proper color on the OSD, thereby
 synchronizing the color wheel with the image modulator. connected to the image
 ~~modulator for controlling the image modulator to operate synchronously with~~
 ~~the color wheel; and~~
20 ~~a scalar connected to the image modulator for generating a gray level image signal;~~
 ~~wherein the color light is modulated to form a gray level image on the screen through~~
 ~~a gray level image signal outputted to the image modulator, and the image~~
 ~~modulator is controlled to operate synchronously with the color wheel according~~
 ~~to the gray level image.~~

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2 (original): The projector of claim 1 wherein the image modulator is a digital micromirror device (DMD).

3 (original): The projector of claim 1 wherein the gray-level image has 32 gray-levels.

4 (original): The projector of claim 1 wherein gray-level images are generated for 3
5 colors.

5 (original): The projector of claim 4 wherein the 3 colors having gray-level images are red, green, and blue.

10 6 (currently amended): A method for adjusting a projector, the projector comprising a color wheel for separating light into color light, a image modulator for modulating the color light from the color wheel, and a control circuit for controlling the image modulator to operate synchronously with the color wheel, the method comprising:
(a) ~~providing a scalar;~~
15 (b) using the a scalar to control the image modulator to display a plurality of gray-level images for at least one predetermined color on a screen create a plurality of gray-level images for each of one or more predetermined colors; and
(c) ~~according to the plurality of gray-level images corresponding to the predetermined color, using the control circuit to control the image modulator to operate~~
20 ~~according to rotation of the color wheel for accurately projecting an image on the screen.~~
utilizing a control circuit to project an on screen display (OSD) on a screen, the OSD comprising the plurality of gray-level images created by the scalar; and
adjusting a color wheel delay of the projector with the control circuit until the
25 gray-level images corresponding to each color display the proper color on the OSD, thereby synchronizing the color wheel with the image modulator.

7 (cancelled).

- 8 (original): The method of claim 6 wherein the image modulator is a digital micromirror device (DMD).
- 5 9 (original): The method of claim 6 wherein the gray-level image has 32 gray-levels.
- 10 (original): The method of claim 6 wherein gray-level images are generated for 3 colors.
- 10 11 (original): The projector of claim 10 wherein the 3 colors having gray-level images are red, green, and blue.